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RE:

INVENTION: SIMPLE RESTRAINT HARNESS FOR WALKING OR OTHER
ACTIVITY

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APPLICATION NUMBER: 10/724490

Following is a clean copy of the specification, per 1.125(b).



INVENTOR: Marianna Oreshkin
TITLE OF INVENTION: Simple Restraint Harness
for Walking or Other Activity
ATTORNEY: Ronald Grant, USPTO# 52,960

SPECIFICATION

2

3 [0002] TITLE OF INVENTION

4 [0003] Simple Restraint Harness for Walking or Other Activity

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6 [0004] CROSS-REFERENCE TO RELATED APPLICATIONS

7 [0005] Not Applicable

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9 [0006] STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR

10 DEVELOPMENT

11 [0007] Not Applicable

12

13 [0008] REFERENCE TO SEQUENCE LISTING, A TABLE, OR A COMPUTER

14 PROGRAM LISTING COMPACT DISK APPENDIX

15 [0009] Not Applicable

16

17 [0010] BACKGROUND OF THE INVENTION

18 [0011] Guardians of normal physical ability and dexterity know it can be difficult to
19 restrain the movements of even a cooperative restrainee while walking or other activity.

20 The problem is increased, and the stress on the guardian becomes greater, when

21 attempting to lead or control a restrainee when the restrainee does not wish to be so

22 controlled. The battle that ensues often is not only one between the guardian and the

1 restraineed; but also a three way battle involving the guardian, the restraineed, and the
2 restraint. Often simplicity, ease and speed in being able to secure the restraint and the
3 restraineed is paramount when making one's way through a dense throng, across a
4 busy street or when attempting to control a restraineed's movements.

5 **[0012]** One well-known method to restrain activity is to use a harness which has to
6 have been fitted for the restraineed. Intuitively, walking harnesses use buckles or other
7 technology to adjust or secure the restraint. However, placement and removal of such
8 a harness usually involves cumbersome and time consuming adjustments of buckles or
9 other technology added to the straps of the harness.

10 **[0013]** The problem of getting these harnesses onto a restraineed becomes even
11 more cumbersome the more technology is added to the straps to allow for adjustment.
12 Individuals with limited manual dexterity or a restraineed who moves frequently during
13 fitting, may not be able to accommodate quick, easy and painless placement of these
14 harnesses.

15 **[0014]** As the demographics of population age and more individuals of handicapped
16 dexterity gain guardianship rights, a restraint system for walking or other activity that is
17 effective and simple to put into place around a restraineed is necessary.

18 **[0015]** Invention restrains without adjustments by other technology because of its
19 design. This has the advantage of soft restraints that can be threaded without
20 manipulation of difficult buckles or other technology.

1 **[0016]** BRIEF SUMMARY OF THE INVENTION

2 **[0017]** Accordingly, the present invention overcomes the above problems by using a
3 novel harness made from a minimal number of straps and loops that may be easily and
4 conveniently threaded and then grasped by a guardian to restrain the movement of the
5 restraineed. Invention adjusts to fit the restraineed because of the design of the harness,
6 without the use of buckles or other technology. This has the advantage of soft
7 restraints that can be threaded without manipulation of difficult buckles.

8 **[0018]** Invention is three straps formed to restrain the restraineed. A primary strap
9 has two secondary straps attached left and right of center to the primary strap, with
10 loops at the free ends of the secondary left and right straps. The primary strap is
11 placed on the front of the restraineed either at shoulder level or at the level of the axillae
12 (plural form for a body part analogous to the armpits.) The two free ends of the
13 secondary left and right straps are each placed over the shoulder to the restraineed's
14 back and then crossed or not crossed; or the two free ends of the secondary left and
15 right straps are each placed under the respective axilla to the restraineed's back. The
16 two ends of the primary strap are wrapped around the body to the back of the
17 restraineed and each end is threaded through a respective loop of a secondary strap; or
18 the two ends of the primary strap are threaded through both loops of the secondary left
19 and right straps. The guardian then holds the ends of the primary strap.

20 **[0019]** These and many other objects and advantages of the present invention will
21 be readily apparent to one skilled in the art to which the invention pertains from a
22 perusal of the claims, the appended drawings, and the following detailed description of

1 the preferred embodiments. It should be understood that the detailed description and
2 specific examples, while indicating the preferred embodiment of the invention, are
3 intended for purposes of illustration only and are not intended to limit the scope of the
4 invention.

5
6 **[0020] BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS**

7 **[0021]** FIG. 1 is a front view of the preferred embodiment of the invention applied to
8 a small child.

9 **[0022]** FIG. 2 is a perspective view of the preferred embodiment of the invention.

10 **[0023]** FIG. 3 is a perspective view of the preferred embodiment showing the
11 secondary straps if positioned over the shoulders and crossed in the back.

12 **[0024]** FIG. 4 is a perspective view of the preferred embodiment showing both ends
13 of the primary strap threaded through both loops of the secondary straps.

14 **[0025]** FIG. 5 is a perspective view of the preferred embodiment showing the
15 secondary straps if positioned over the shoulders.

16 **[0026]** FIG. 6 is a perspective view of the preferred embodiment showing the
17 secondary straps if positioned under the axillae.

18
19 **[0027] DETAILED DESCRIPTION OF THE INVENTION**

20 **[0028]** The present invention is three straps formed to restrain the restrainee. The
21 invention restrains without adjustments by other technology because of its design. This

1 has the advantage of soft restraints that can be threaded without manipulation of
2 difficult buckles or other technology.

3 **[0029]** The three straps are formed so that a primary strap has two secondary
4 straps, with these secondary straps attached left and right of center to the primary
5 strap. The two secondary straps are formed so as to have loops at the free ends of the
6 secondary left and right straps.

7 **[0030]** The primary strap 1 is placed across the front of the restrainee, with a first
8 secondary strap 2 and a second secondary strap 3 pointing either down or up,
9 depending on whether the primary strap 1 is placed across the chest at the level of the
10 shoulders or the level of the axillae, respectively. The primary strap 1 is of sufficient
11 length to go from the front around to the back of the restrainee, through the end loop 4
12 of the first secondary strap 2 and the end loop 5 of the second secondary strap 3 and
13 for the guardian to then hold a first end 6 and a second end 7 of the primary strap 1.
14 Additionally, these secondary straps are of sufficient length to cross at the back of the
15 restrainee.

16 **[0031]** As shown in FIG. 3, if the primary strap 1 is placed at axilla level across the
17 chest, then it should be placed with the first secondary strap 2 and the second
18 secondary strap 3 pointed up. The first secondary strap 2 and the second secondary
19 strap 3 are brought over the restrainee's shoulders to the restrainee's back and then
20 these secondary straps are crossed. Then the first end 6 of the primary strap 1 is
21 threaded through the end loop 5 of the first secondary strap 3, and the second end 7 of
22 the primary strap 1 is threaded through the end loop 4 of the second secondary strap 2.

1 [0032] For a tighter restraint, as shown in FIG. 4, the first end 6 of the primary strap
2 1 can be threaded through the end loop 4 of the first secondary strap 2 and then
3 through the end loop 5 of the second secondary strap 3; and the second end 7 of the
4 primary strap 1 can be threaded through the end loop 5 of the second secondary strap
5 3 and then through the end loop 4 of the first secondary strap 2.

6 [0033] When arranged as shown in FIG. 3 and FIG. 4, the crossing of the secondary
7 straps directs any force applied to ends of the primary strap toward the apex points of
8 the secondary straps. This brings the secondary straps toward each other ensuring the
9 secondary straps remain on the shoulders of the restrainee.

10 [0034] As shown in FIG. 5, if the primary strap 1 is placed at axilla level across the
11 chest, then the first secondary strap 2 and the second secondary strap 3 will be
12 pointing up. The first secondary strap 2 and the second secondary strap 3 are brought
13 to the restrainee's back over the restrainee's shoulders. Then the first end 6 of the
14 primary strap 1 is threaded through the end loop 4 of the first secondary strap 2 and the
15 second end 7 of the primary strap 1 is threaded through the end loop 5 of the second
16 secondary strap 3.

17 [0035] As shown in FIG. 6, if the primary strap 1 is placed at shoulder level across
18 the chest, then first secondary strap 2 and the second secondary strap 3 are pointed
19 down. The first secondary strap 2 and the second secondary strap 3 are brought to the
20 back of the restrainee under the axillae. Then the first end 6 of the primary strap 1 is
21 threaded through the end loop 4 of the first secondary strap 2 and the second end 7 of
22 the primary strap 1 is threaded through the end loop 5 of the second secondary strap 3.

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1 **[0036]** While preferred embodiments of the present invention have been described,
2 the embodiments described are illustrative only and the scope of the invention is
3 defined herein when accorded a full range of equivalence, many variations and
4 modifications naturally occurring to those of skill in the art from a perusal hereof. Such
5 variations are intended to be within the scope of the invention.